



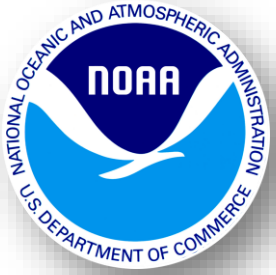
NOAA HD Charts: Pilot Project in LA/Long Beach and Mississippi River

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HD Chart Drivers

- Growth in the use of deeper draft vessels
- More advanced ENC production systems
- Increased availability of high quality source data
- Consumer desire for data rich chart products



HD Chart

- HD ENC Specifications
- Test Area
- Source Data Specifications
- Compilation Process
- Sample Deliverables



HD ENC Specifications

- Built to the IHO S-57 standard
- Validated against IHO S-58
- IHO Scale Band 6: 1 to 5,000
- Gridded to adhere to MCD re-scheme
- Official NOAA Chart Product

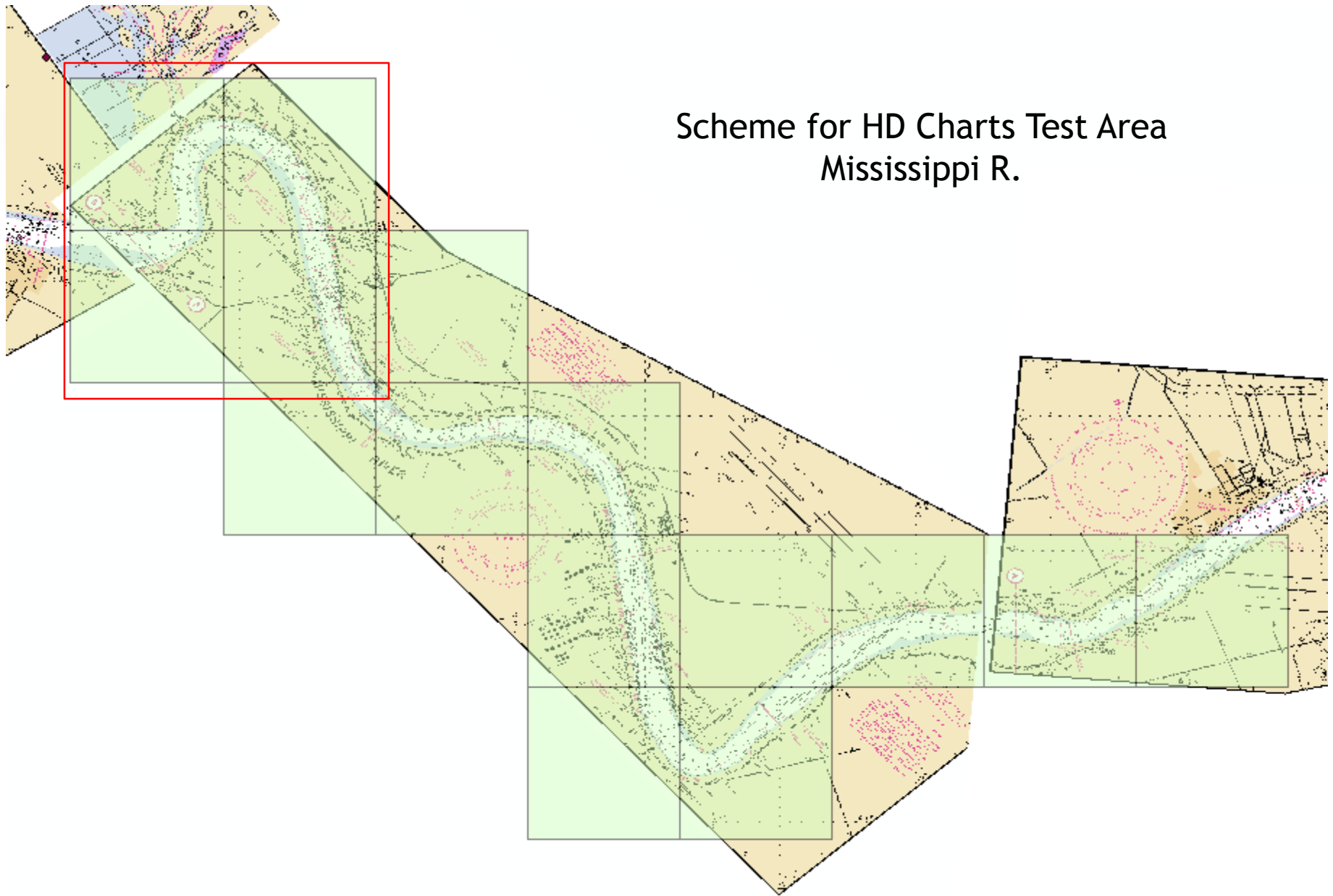


Initial Test Areas

Based upon the availability of suitable source data, this 1st phase of HD Chart production has been limited to two primary test areas.

- Mississippi River, Louisiana
- Ports of Long Beach/Los Angeles, California

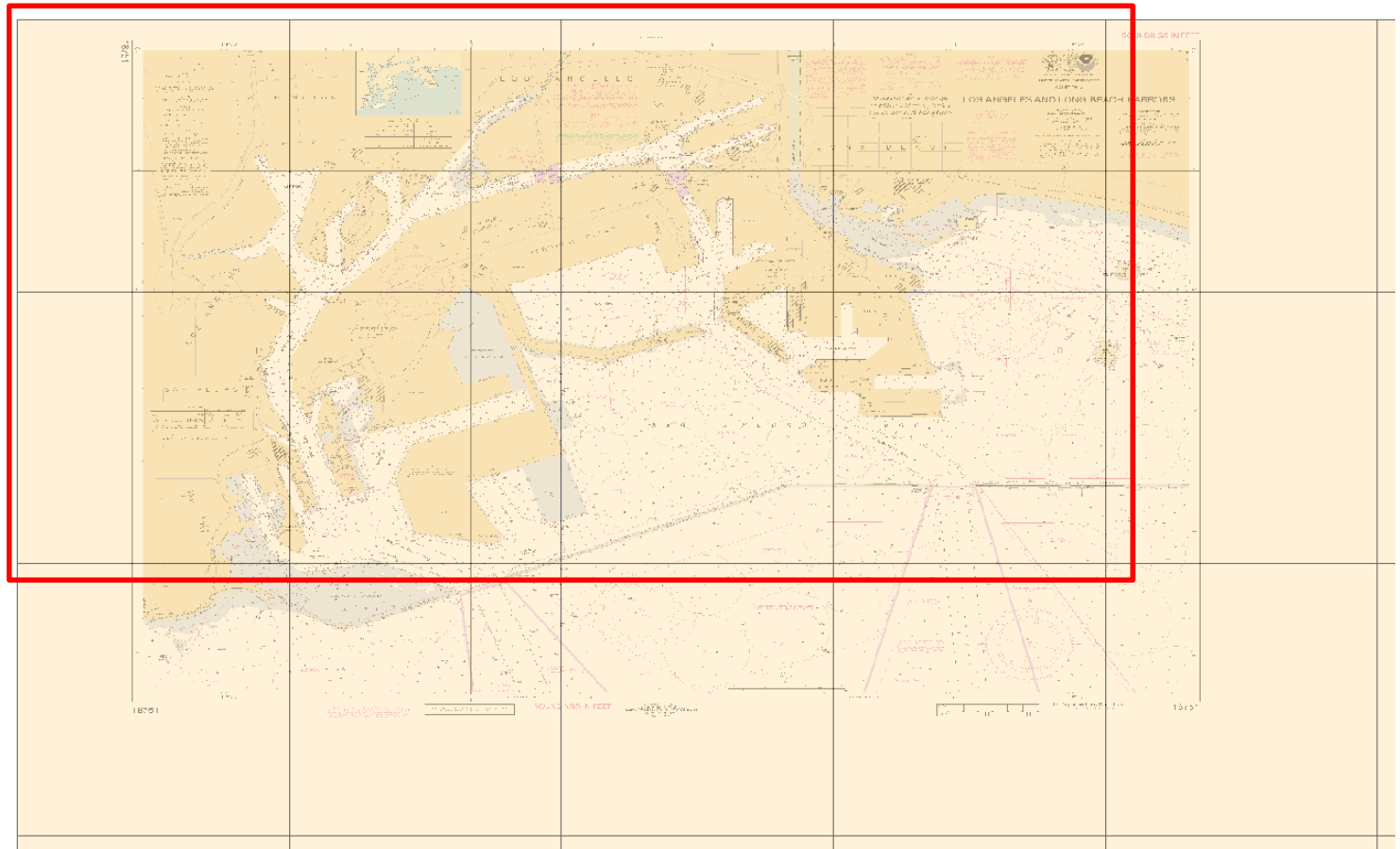
Scheme for HD Charts Test Area Mississippi R.





Initial Study Areas

Scheme for HD Charts Test Area
Port of Long Beach/LA





HD Chart Source Specifications

- NOAA HD Charts will be built using high resolution multi-beam data.
- The two test areas have been surveyed or will be surveyed to the necessary data quality.
- This high resolution source data results in a smooth surface making automation of the compilation process possible





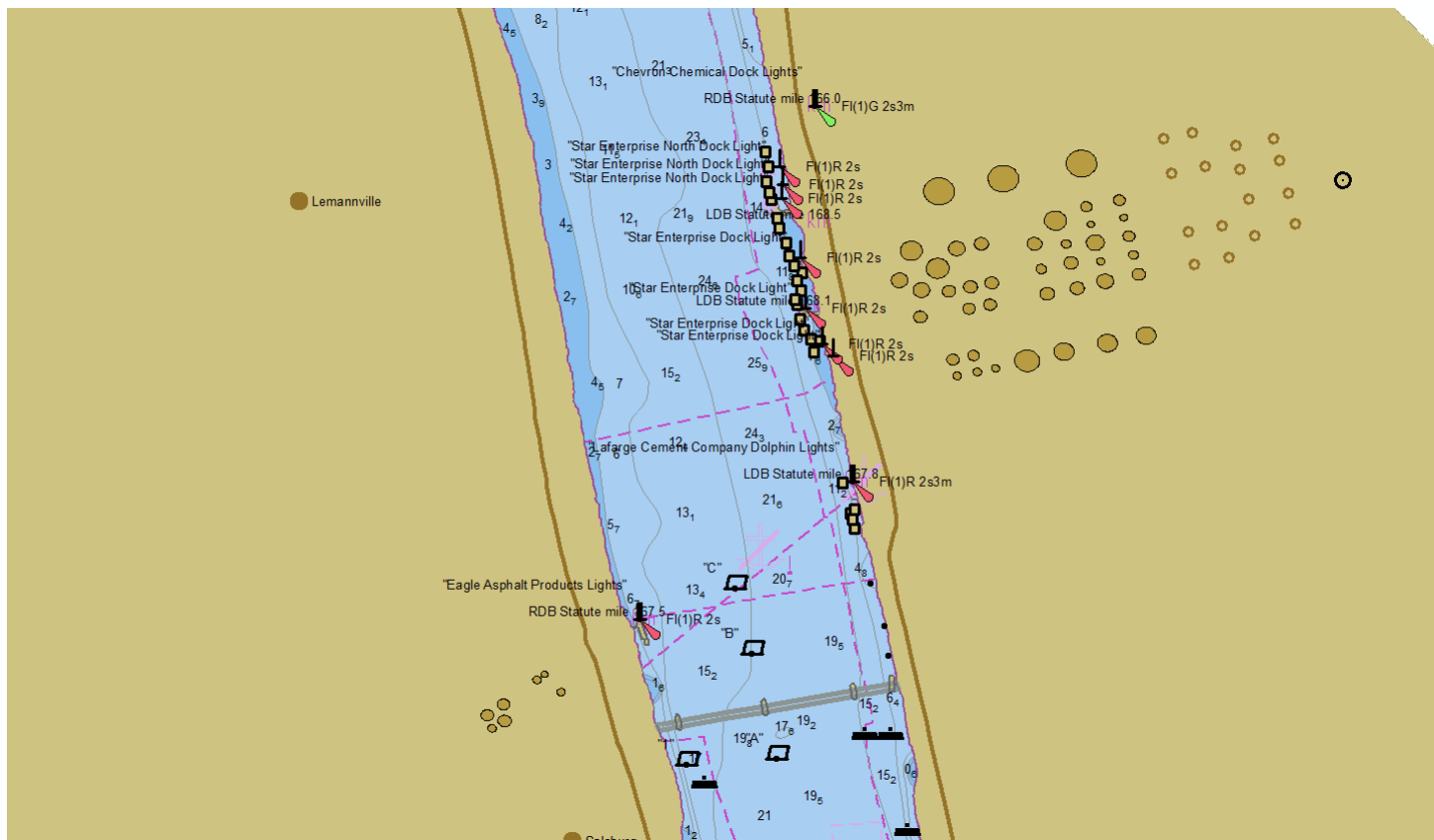
HD ENC Compilation

- Automated to the highest degree possible
- Process utilizes existing tools, and scripts those tools into a unified workflow resulting in a HD chart
- Outputs are *.000, GDB, and Data Reviewer table of the S-58 Errors and Warnings





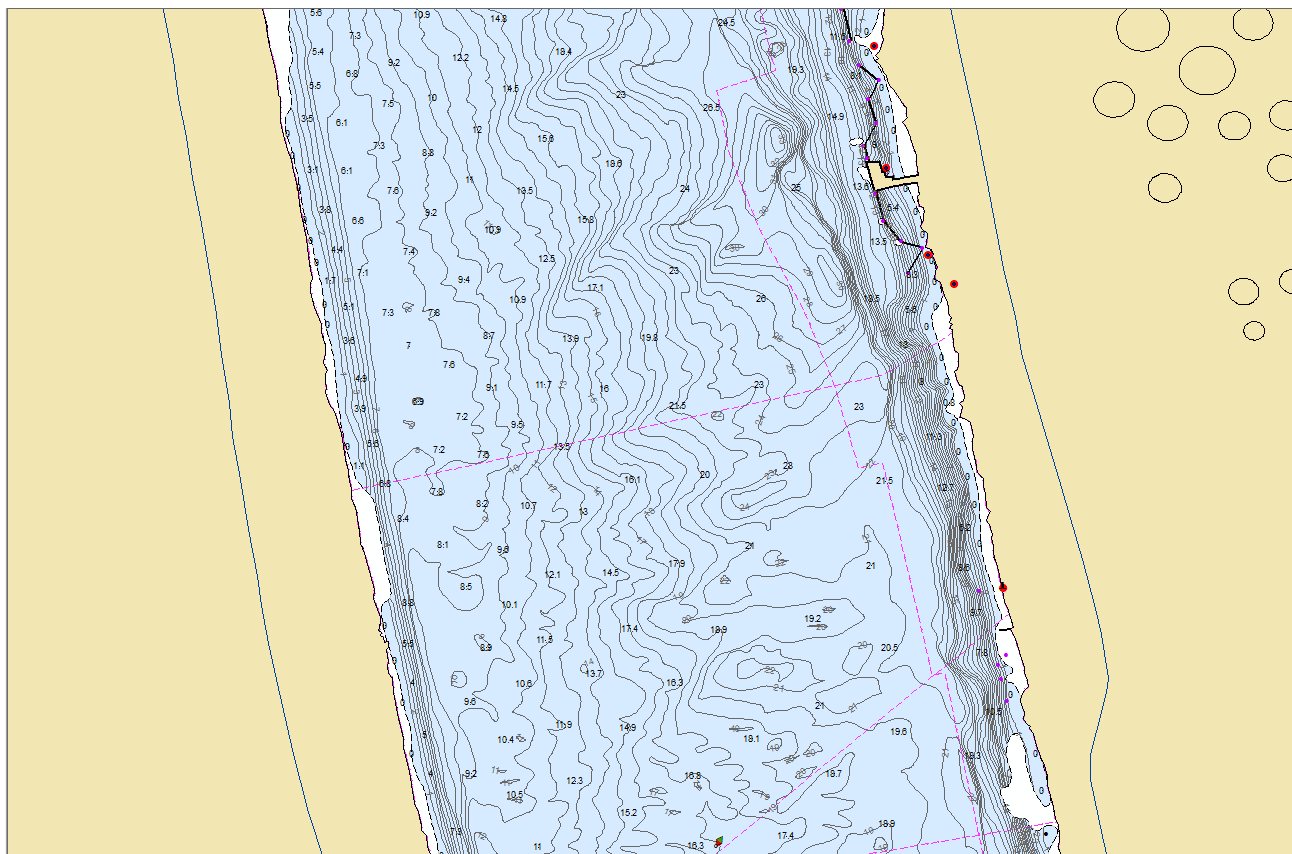
Existing ENC coverage



US6LA54M Scale = 1:12,000



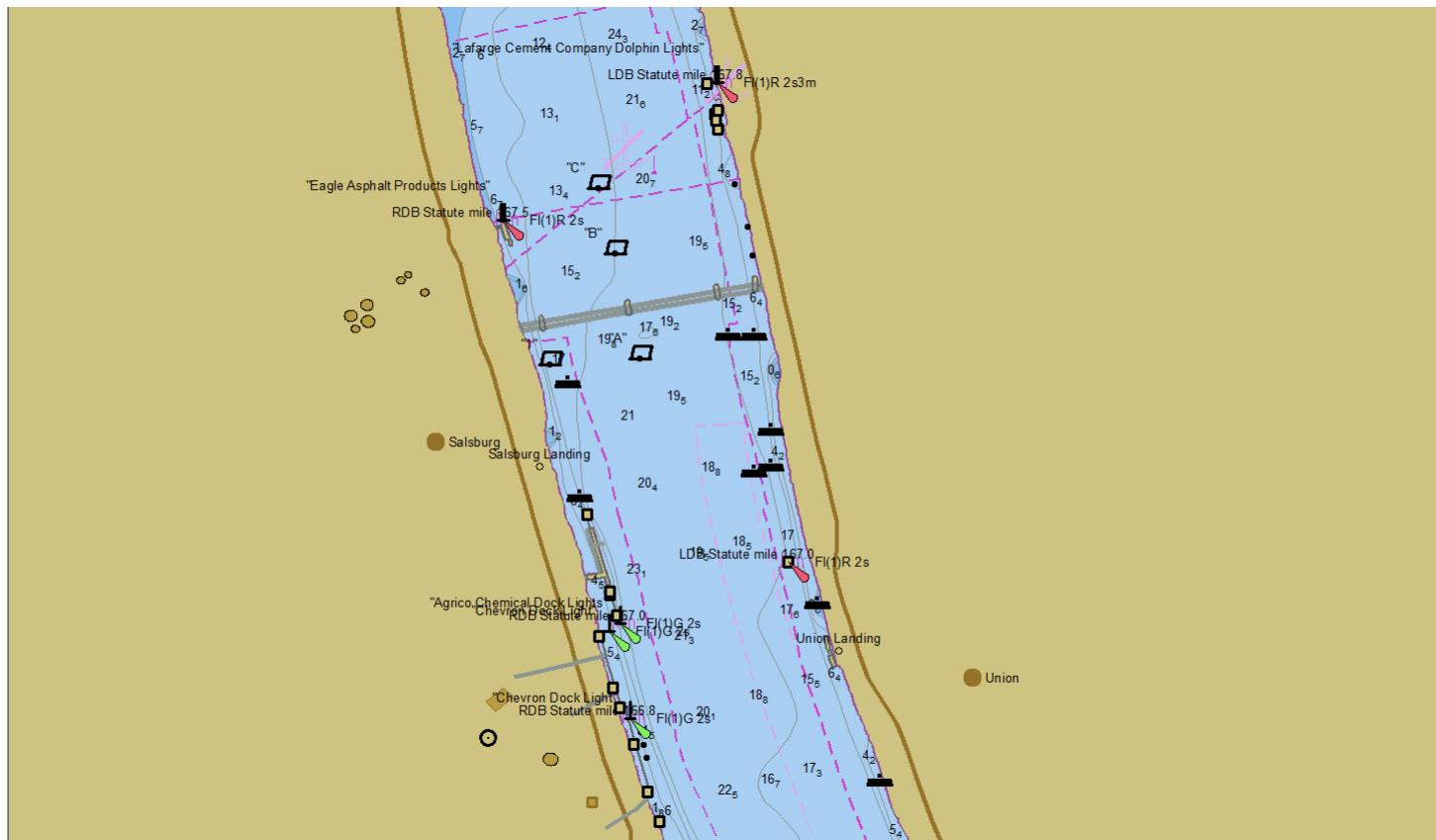
Existing ENC coverage



US6MRHHM Scale = 1:5,000



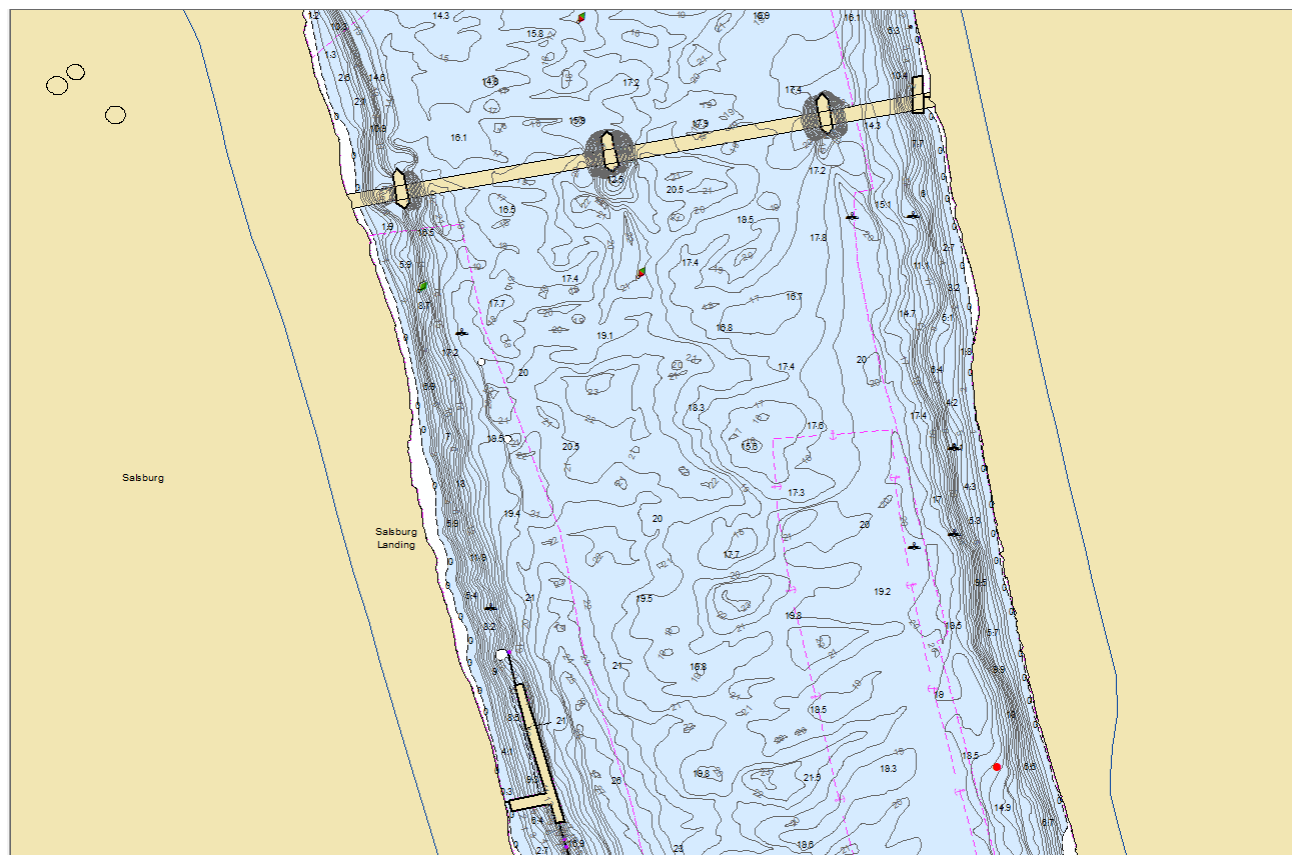
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